

TITLE OF THE INVENTION

LDPC (Low Density Parity Check) coded modulation hybrid decoding

CROSS REFERENCE TO RELATED PATENTS/PATENT APPLICATIONS

The present U.S. Utility Patent Application claims priority pursuant to 35
5 U.S.C. § 119(e) to the following U.S. Provisional Patent Applications which are
hereby incorporated herein by reference in their entirety and made part of the present
U.S. Utility Patent Application for all purposes:

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1. U.S. Provisional Application Serial No. 60/490,967, "LDPC (Low
Density Parity Check) coded modulation symbol decoding," (Attorney Docket No.
10 BP3089), filed July 29, 2003 (07/29/2003), pending.

2. U.S. Provisional Application Serial No. 60/519,457, "LDPC (Low
Density Parity Check) coded modulation hybrid decoding," (Attorney Docket No.
BP3134), filed November 12, 2003 (11/12/2003), pending.

The present U.S. Utility Patent Application also claims priority pursuant to 35
15 U.S.C. § 120 to the following U.S. Utility Patent Application which is hereby
incorporated herein by reference in its entirety and made part of the present U.S.
Utility Patent Application for all purposes:

1. U.S. Utility Application Serial No. 10/668,526, entitled "LDPC (Low
Density Parity Check) coded modulation symbol decoding," (Attorney Docket No.
20 BP3089), filed September 23, 2003 (09/23/2003), pending, which claims priority
pursuant to 35 U.S.C. § 119(e) to U.S. Provisional Patent Application Serial No.
60/490,967, "LDPC (Low Density Parity Check) coded modulation symbol decoding,"
(Attorney Docket No. BP3089), filed July 29, 2003 (07/29/2003), pending.

BACKGROUND OF THE INVENTION

25 **TECHNICAL FIELD OF THE INVENTION**

The invention relates generally to communication systems; and, more particularly,
it relates to decoding of signals within such communication systems.

DESCRIPTION OF RELATED ART

Data communication systems have been under continual development for many
30 years. One such type of communication system that has been of significant interest
lately is a communication system that employs turbo codes. Another type of